Infection Prevention and World Health Organization Control (IPC) for Maternal Newborn and Child Health services during COVID-



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- 1. Introduction to Infection Prevention and Control (IPC)
- 2. IPC recommendations for COVID-19 in the context of MNCH services





Introduction to IPC

Importance of Infection Prevention and Control







IPC Core Components



Guidelines on Core Components of Infection Prevention and Control Programmes at the National and Acute Health Care Facility Level IPC core components include:

- IPC programmes should be implemented at national and health care facility levels;
- National IPC focal point and at each facility;
- Training in IPC measures; including personal protective equipment (PPE) and understanding of modes of transmission of diseases

IPC should be an <u>ongoing</u> activity undertaken by all health workers



https://www.who.int/infection-prevention/publications/core-



IPC: Standard Precautions for all health care settings

- 1. Hand hygiene
- 2. Respiratory hygiene (etiquette)
- 3. PPE according to the risk assessment
- 4. Safe injection practices, sharps management and injury prevention
- 5. Safe handling, cleaning and disinfection of patient care equipment
- 6. Surface and environmental cleaning
- 7. Safe handling and cleaning of soiled linen
- 8. Waste management



When coughing and sneezing cover mouth and nose with flexed elbow or tissue





immediately after use

Clean hands with alcohol-based hand rub or soap and water after coughing or sneezing and when caring for the sick

X Oranoa

Wash your hands

Wash your hands with soap and running water when hands are visibly dirty

Wald Heath Unar Deser



If your hands are no visibly dirt frequently clean the by using alcohol-base hand rub or soap ar

1. Hand hygiene: Why is important?

- Practicing good hand hygiene is the best way to prevent the spread of germs in the health care setting and community
- Our hands are our main tool for work as health care workersand they are the key link in the chain of transmission







Good respiratory hygiene/cough etiquette can reduce the spread of microorganisms into the environment that cause respiratory infections.

** For health workers – do not come to work if experiencing respiratory symptoms!** HOW?

- Cover the nose and mouth when sneezing and/or coughing with a tissue or your sleeve/inside of your elbow, if no tissue is available
- Perform hand hygiene afterwards with alcohol based hand rub products or water and soap if hands are visibly soiled
- Stay away from others when ill (particularly for health workers to avoid coming to work when ill)
- Avoid introductory kissing or shaking hands when ill
- Avoid close contact with people who exhibit symptoms
- Wear a medical mask if having respiratory symptoms

2. Respiratory Hygiene













3. Personal Protective Equipment (PPE) items:



The type of PPE used will vary based on the health service provided, the individual risk-assessment, and additional transmission-based precautions needed.

3. PPE according to Risk Assessment



<u>Risk assessment</u>: risk of exposure and extent of contact anticipated with blood, body fluids, respiratory droplets, and/or open skin

- Select which PPE items to wear based on this assessment
- Perform hand hygiene according to the WHO "5 Moments"
- Should be done for each patient, each time



IPC recommendations for COVID-19 in the context of MNCH services





Modes of transmission of COVID-19



programme

Droplet

- Respiratory droplets (particles >5-10 µm in diameter)
- generated when an infected person coughs or sneezes
- Any person who is in close contact with someone who has respiratory symptoms (sneezing, coughing) is at risk of being exposed to potentially infective respiratory droplets

Contact

- *Direct contact* with infected people through touching
- Indirect contact with surfaces in the immediate environment; droplets may land on surfaces, thus, the immediate environment of an infected individual can serve as a source of transmission if someone touches it and then their face

Airborne

- Only aerosol-generating procedures in health settings
 - tracheal intubation, noninvasive ventilation, tracheotomy, cardiopulmonary resuscitation, manual ventilation before intubation, and bronchoscopy

transmission of virus causing COVID-19:implications for IPC precaution recommendations, Scientific Brief, 29 March 2020 EMERGEN Control of the causing COVID-19:implications for IPC precaution recommendations, Scientific Brief, 29 March 2020 EMERGEN

How to set up a safe MNCH service delivery site

- **Built environment:** Pick a well **ventilated area** or outdoor space where you can ensure one-way flow and physical distance
- Avoid crowded **waiting areas**, limit persons accompanying the person needing vaccination, and ensure a 1metre distance between others or between chairs
- Ensure the availability of **hand sanitizer** or a hand washing station is available at the entrance of the health facility
- Perform **screening** of persons presenting respiratory symptoms before admission to the vaccination posts to prevent the spread of COVID-19 infection
- Ensure adequate space for the **sideways positioning** of the recipient and caretaker so they are not face-to-face to the









Screening

- Intended for the early recognition of possible COVID-19 cases to determine protection measures
- Ensure one way direction (flow) of recipients throughout process
- Separation: at least 1 meter maintained between all patients
- Signage posted for recipients to report symptoms
- Masks are required for screening by health workers unless 1 meter physical distance can be maintained between the screener and recipient



Physical distancing during routine Immunization. Malawi, May 2020







Program leaders

(National or subnational level)

- 1. Confirm the local COVID-19 transmission scenario
- 2. Consider health service and delivery strategy to be used and make a risk assessment
 - Define and recommend which PPE items which should be based on this assessment; assure appropriate IPC training and supply of necessary equipment







Settings: Recommended IPC Activities and PPE for Health Workers



COVID-19 Transmission setting	IPC activities in any setting (fixed, outreach, mass campaign)	Personal Protective Equipment
No Cases	 Adhere to national IPC protocols Always apply standard precautions Screening recommended in all settings Maintain 1 meter distance between vaccinators and accompanying members/family members as much as possible Ensure that the recipient and caretaker is positioned sideways to the vaccinator (not face to face) Hand hygiene between recipients Disinfection of surfaces after every patient (if applicable) 	 Adhere to national IPC protocols Additional PPE indicated by the risk assessment per recipient
Sporadic or Cluster cases		 Adhere to national IPC protocols Medical masks can be considered a requirement for health workers
Community transmission		 Adhere to national IPC protocols Health workers should wear medical masks throughout the session

Community transmission: PPE during community service delivery

Home visit (for example, for antenatal or postnatal care, or care for a person with tuberculosis, HIV or another chronic condition)	Outreach activities and campaigns	Community case management of acute illness in children
 If feasible, conduct home visits outside in a well-ventilated space and keep a distance of at least 1m Perform hand hygiene frequently and while providing care, according to WHO's recommendations on the 5 moments for hand hygiene. Consider wearing a medical mask when in direct contact or when a distance of at least 1 m cannot be maintained Wear gloves only if exposure is expected to blood, body fluids, secretions, excretions, mucous membranes or broken skin. 	 When no direct contact is involved (for example, during the distribution of insecticide-treated nets) Maintain distance of at least 1 m No screening required. No PPE required. Perform hand hygiene frequently. When direct contact is involved (for example, delivering vaccinations) Perform hand hygiene between each patient. Consider wearing a medical mask during close contact 	 Perform hand hygiene according to WHO's recommendations on the 5 moments for hand hygiene. PPE needs depend on the outcome of screening. If the patient is not suspected to have COVID-19: wear a medical mask and gloves for a malaria rapid diagnostic test, as perstandard protocol. If the patient is suspected to have COVID-19: wear full PPE (medical mask, eye protection, gloves, gown).





Risk assessment: Use of PPE



Hand hygiene		Practice between each patient (before and after contact).	
PPE item		When to use	
Masks		In areas with COVID-19 community transmission, health workers should wear a medical mask throughout the immunization session. The mask can be replaced when damaged, contaminated or damp.	
Eye protection		Use if risk of splashes from droplets or body fluids are anticipated into the eyes, as indicated by risk assessment conducted before every interaction with patients	
Gloves		Gown or gloves should be discarded after single use.	
Gown			





PPE required when managing suspect COVID-19 cases



Droplet & Contact precautions for suspected or confirmed COVID-19 cases

- 1. hand hygiene
- 2. gown
- 3. eye protection (face shield or goggles)
- 4. medical mask
- 5. gloves







Recommended IPC Kit for Outreach/Campaign Kit

In addition to vaccination supplies, health workers are advised to carry IPC kits with them, as a precaution. This kit contains PPE that may be required based on individual risk assessment.

This kit should at minimum contain:

- 1. Alcohol based hand rub
- 2. Medical mask (bring several for replacement needs)
- 3. Eye protection (in case there is a need)
- 4. Gloves (in case there is a need)
- 5. Gowns (in case there is a need)
- 6. Garbage bag





The home care document may be of use alongside these kits <u>https://www.who.int/publications-detail/home-care-for-patients-with-suspected-novel-</u> <u>coronavirus-(ncov)-infection-presenting-with-mild-symptoms-and-management-of-contacts</u>





Community Engagement

- Risk communication
 - Ensure safety measures are communicated to the community
 - Messages need to be adapted to MNCH service delivery changes in the outbreak context
- Community engagement
 - Allocate time to engage community leaders and mobilizers
 - Train community mobilizers in IPC measures



Physical distancing, Measles Campaign. DRC March 2020





Infection prevention and control during health care when COVID-19 is suspected

Interim guidance 19 March 2020



https://www.who.int/publications-detail/infection-prevention-and-control-during-health-carewhen-novel-coronavirus-(ncov)-infection-is-suspected-20200125

Rational use of personal protective equipment for coronavirus disease (COVID-19) and considerations during severe shortages

Interim guidance

6 April 2020



https://apps.who.int/iris/bitstream/handle/10665/331695/WHO-2019-nCov-IPC_PPE_use-2020.3eng.pdf

Advice on the use of masks in the context of COVID-19

Interim guidance

5 June 2020



https://www.who.int/publications/i/item/advice-on-the-use-of-masks-in-the-community-duringhome-care-and-in-healthcare-settings-in-the-context-of-the-novel-coronavirus-(2019-ncov)-outbreak



Mask	What: Type of mask	Who: Masks should be used for	Where: Settings
Medical mask		Health workers	 Health care settings within the clinical areas
		People caring for suspect or confirmed cases of COVID-19 outside of health facilities	 Home settings with a sick person
		Anyone with symptoms suggestive of COVID-19	 Any setting in the community
		People aged 60 or over People with underlying health	 Public settings where physical distancing cannot be maintained
		conditions	
Non-medical mask Aka Fabric mask		 People in the general public in areas with no or limited capacity to implement control measures, incl physical distancing of at least 1m People on crowded transports 	 Public settings Workplaces Bus, metro, etc

IPC online training options









Show course details Enroll me for this course

How to put on and remove personal protective equipment (PPE)

Show course details Enroll me for this course



Infection Prevention and Control (IPC) for Novel Coronavirus (COVID-19))

Show course details Enroll me for this course

Resources for COVID-19

IPC documents

https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-

guidance/infection-prevention-and-control

https://www.who.int/infection-prevention/publications/en/

https://apps.who.int/iris/bitstream/handle/10665/331695/WHO-2019-nCov-IPC_PPE_use-2020.3-eng.pdf

https://www.who.int/publications/i/item/advice-on-the-use-of-masks-in-the-communityduring-home-care-and-in-healthcare-settings-in-the-context-of-the-novel-coronavirus-(2019-ncov)-outbreak

Questions and Answers

https://www.who.int/news-room/q-a-detail/q-a-coronaviruses

If you cannot find an answer you can email our general IPC email with your question: **WHEIPC@who.int**







Thank You!





